Application No.: 09/765,534 Docket No.: 28967/34891A

Amendments to the claims:

This listing of claims replaces all prior versions and listings of claims in the application:

1-18. (Canceled)

- 19. (Currently amended) An isolated <u>peptide or polypeptide according to claim 20 [1]</u>, wherein said Flt4 fragment is encoded by a polynucleotide or oligonucleotide that consists of a continuous nucleotide sequence of at least 200 nucleotides from a nucleotide sequence selected from the group consisting of: SEQ ID NO: 1 [, a nucleotide sequence complementary to SEQ ID NO: 1,] <u>and SEQ ID NO: 3 [, and a nucleotide sequence complementary to SEQ ID NO: 3].</u>
- 20. (New) An isolated peptide or polypeptide comprising the Flt4 receptor tyrosine kinase (Flt4) amino acid sequence set forth in SEQ ID NO: 2 or 4 or comprising a fragment thereof, wherein the fragment includes sufficient amino acid sequence of SEQ ID NO: 2 or 4 to generate an immune response in a nonhuman mammalian to produce antibodies that bind to Flt4 (SEQ ID NO: 2 or 4) and fail to bind to the Flt1 receptor tyrosine kinase amino acid sequence set forth in SEQ ID NO: 6.
- 21. (New) A purified peptide or polypeptide according to claim 20, comprising an extracellular domain (EC) fragment of SEQ ID NO: 2 or 4.
- 22. (New) A purified polypeptide according to claim 21, wherein the fragment includes extracellular domain amino acids 21 to 775 of SEQ ID NO: 2 or 4.
- 23. (New) A purified polypeptide according to claim 21, wherein the fragment includes amino acids 1 to 775 of SEQ ID NO: 2 or 4.
- 24. (New) A peptide comprising a deletion fragment of the polypeptide of claim 23.
- 25. (New) An oligonucleotide or polynucleotide comprising a nucleotide sequence that encodes the peptide or polypeptide of any one of claims 19-24.
- 26. (New) An oligonucleotide or polynucleotide according to claim 25, further comprising an expression control sequence operatively linked to the sequence the encodes the peptide or polypeptide.

Application No.: 09/765,534 Docket No.: 28967/34891A

27. (New) An expression vector comprising an expression control sequence operatively linked to the oligonucleotide or polynucleotide according to claim 25.

- 28. (New) An expression vector according to claim 27, wherein the expression control sequence comprises a promoter that promotes expression in a mammalian cell.
- 29. (New) A host cell transformed or transfected with a vector according to claim 28.
- 30. (New) An oligonucleotide or polynucleotide comprising a nucleotide sequence complementary to the oligonucleotide or polynucleotide of claim 25.